IFW

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Applicant:	BEN-JACOB Eshel et al	§	
Serial No.:	10/534,127	§	
Filed:	November 18, 2005	§	Group Art Unit: 3739
For:	SYSTEM FOR AND METHOD OF POSITIONING CELLS AND DETERMINING CELLULAR ACTIVITY THEREOF	§	Attorney Docket: 29752
Examiner:	COHEN, LEE S	§	

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

Enclosed is a PTO Form 1449 which lists citations which may be material to the patentability and examination of the above identified application. Also enclosed are copies of the references cited. These are submitted in compliance with the duty of disclosure defined in 37 CFR 1.56. The Examiner is requested to make these citations of official record in this application.

This Information Disclosure Statement under 37 CFR 1.56 is not to be construed as a representation that a search has been made, that additional matter which is material to the examination of this application does not exist, or that any or more of these citations constitutes prior art.

Respectfully submitted,

Martin D. Moynihan
Registration No. 40,338

Dated: July 26, 2006

PTO/SB/08a (08-03)
Approved for use through 07/31/2006. OMB 0651-0031
U.S.Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	1	of	2

Complete if Known	
Application Number	10/534,127
Filing Date	November 18, 2005
First Named Inventor	BEN-JACOB Eshel et al
Art Unit	3739
Examiner Name	COHEN, LEE S
Attorney Docket Number	29752

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. [1]	Document Number Number-Kind Code[2] (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. [1]	Foreign Patent Documents Country Code[3]- Number[4]- Kind Code[5] (*if known*)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T [6]
Examiner Signature				Date Considered		

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of copy of this form with next communication to applicant. [1] Applicant's unique citation designation number (optional). [2] See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. [3] Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). [4] For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. [5] Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. [6] Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.

SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

PTO/SB/08b (08-03)
Approved for use through 06/30/2006. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Complete if Known	
Application Number	10/534,127
Filing Date	November 18, 2005
First Named Inventor	BEN-JACOB Eshel et al
Group Art Unit	3739
Examiner Name	COHEN, LEE S
Attorney Docket Number	29752

Sheet 2 Of 2

Examiner Initials	Cite No.[1]	OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial symposium, catalog, etc.) date, page(s), volume-issue number(s), publisher, city and/or country where published.	T[2]
	1	Canepari et al. "Experimental Analysis of Neural Dynamics in Cultured Cortical Networks and Transitions Between Different Patterns of Activity", Biological Cybernetics, 77: 153-162, 1997.	
	2	Hamill et al. "Improved Patch-Clamp Techniques for High-Resolution Curent Recording From Cells and Cell-Free Membrane Patches", Pflugers Archives, 391(2): 85-100, 1981. Abstract.	
	3	Huang et al. "Growth of Highly Oriented Carbon Nanotubes by Plasma-Enhanced Hot Filament Chemical Vapor Deposition", Applied Physics Letters, 73(26): 3845-3847, 1998.	
	4	Maiti et al. "Measuring Serotonin Distribution in Live Cells With Three-Photon Excitation", Science, 275: 530-532, 1997.	
	5	Ren et al. "Growth of A Single Freestanding Multiwall Carbon Nanotube on Each Nanonickel Dot", Applied Physics Letters, 75(8): 1086-1088, 1999.	
	6	Ren et al. "Synthesis of Large Arrays of Well-Aligned Carbon Nanotubes on Glass", Science, 282: 1105-1107, 1998.	
	7	Wheeler et al. "Multi-Neuron Patterning and Recording", Enabling Technologies for Cultured Neuronal Networks, Academic Press, 20 P. 1994.	
	8	Egert et al. "A Novel Organotypic Long-Term Culture of the Rat Hippocampus on Substrate-Integrated Multielectrode Arrays", Brain Research Protocols, 2: 229-242, 1998.	
	9	Heuschkel et al. "Buried Microchannels in Photopolymer for Delivering of Solutions to Neurons in A Network", Sensors and Actuators B, 48: 356-361, 1998.	
	10	Jimbo et al. "Simultaneous Measurement of Intracellular Calcium and Electrical Activity From Patterned Neural Networks in Culture", IEEE Transactions on Biomedical Engineering, 40(8): 804-810, 1993.	
	11	Markram et al. "Redistribution of Synaptic Efficacy Between Neocortical Pyramidal Neurons", Nature, 382: 807-810, 1996.	
	12	Ren et al. "Large Arrays of Well-Aligned Carbon Nanotubes", Proceedings of 13th International Winter School on Electronic Properties of Novel Materials, Kirchberg/Tirol, AT, P.263-267, Feb.27 - Mar.6, 1999.	
	13	Segev et al. "Long Term Behavior of Lithographically Prepared In Vitro Neuronal Networks", Physical Review Letters, 88(11): 118102-1 - 118102-4, 2002.	
Signature		Considered	

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.
[1]. Applicant's unique citation designation number (optional). [2]. Applicant is to place a check mark here if English language Translation is attached.
This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. this collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS.
SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.
If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.